

October 17 - 23, 2003

<P>The Terra spacecraft is in nominal mode. All instruments are in Science Mode.</P>

<P>The Solid State Recorder superset Anomaly Investigation Team met on Monday, October 20, and Friday, October 24, 2003. The team has accelerated the investigation of the string of superset loss anomalies that occurred on September 24 and 25, and October 14, 2003. Emergency procurement requests have been implemented to ensure there is funding available to cover contractor members of the sustaining engineering team as needed. The team is continuing to collect information relevant to these anomalies and will work to identify potential failure mechanisms, while focusing on PWA restoration procedures and complete assessment of the risks of performing a power recycle to restore the supersets. The power recycle performed in 2001 to recover from SSR lockup went very smoothly, and the procedure would not be as extensive for this recycle as the SSR is fully functional at this time, albeit with reduced data storage capacity. All indications are that this would not to be a high-risk operation. The current data collection/record capacity for ASTER and MODIS remains above the original baseline volumes for these instruments, although loss of additional supersets for ASTER would bring them to the baseline threshold. However, the power recycle option will not be considered until the threshold is passed.</P>

<P>Plans:

The lunar calibration roll maneuver for MODIS for November will not be conducted due to the fact that it would need to occur close to one of the predicted peaks of the Leonid meteor shower.</P>

<P>A Drag Make-up Maneuver is currently planned for October 31, 2003.

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